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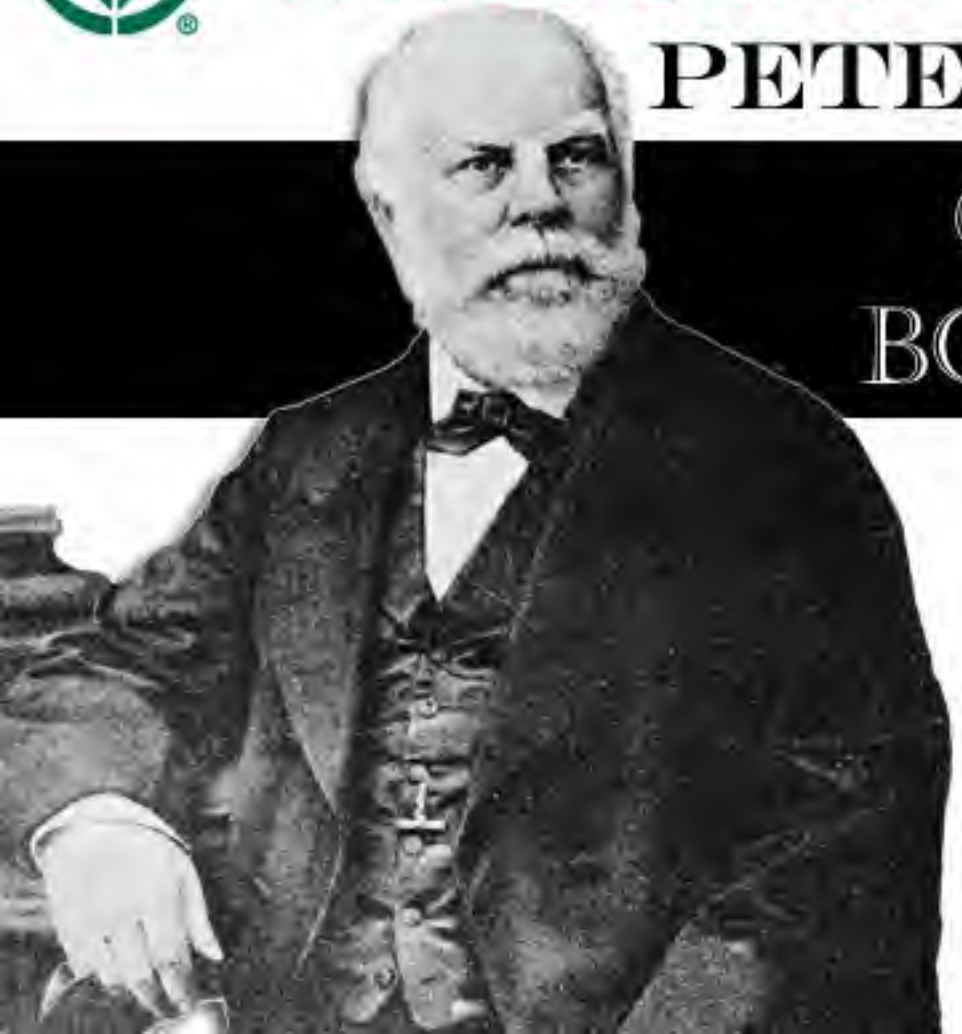


Pagination Note:
Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.

Chara fragilis
Monterey
California

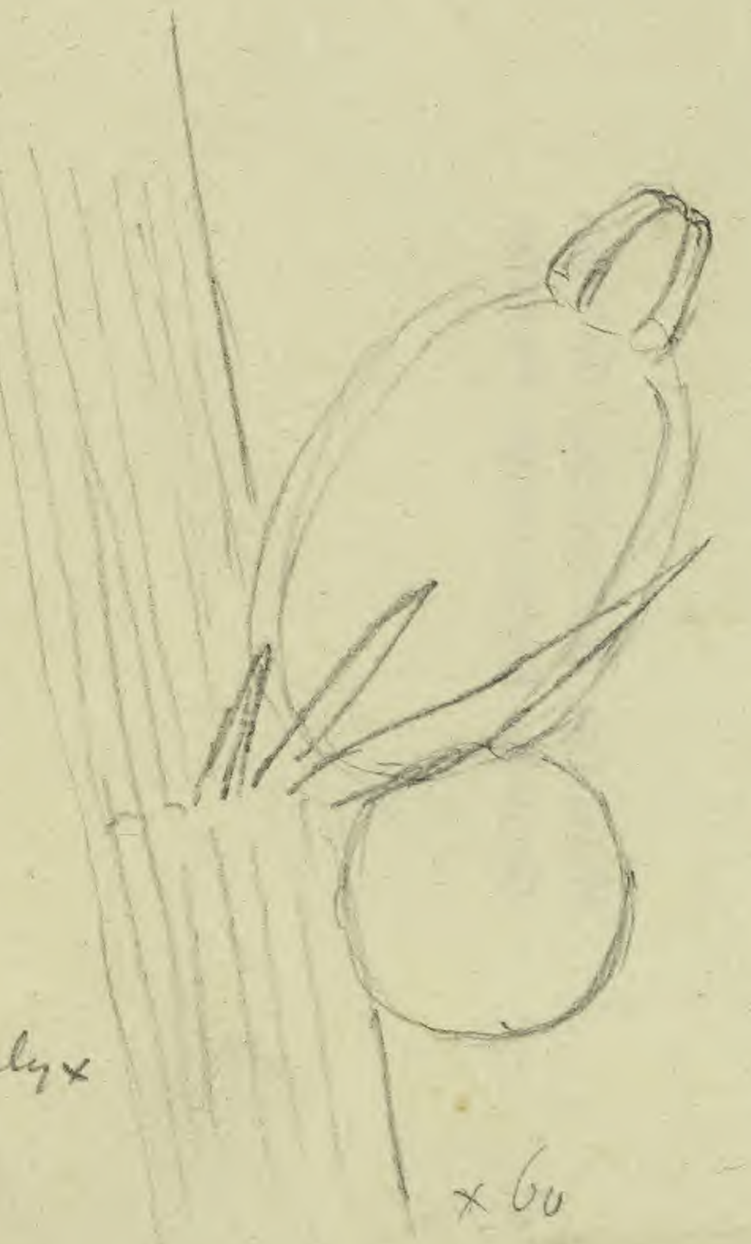
Nov 23 1865

B. Landa Oak 1865

×60

black
outside lead color
11 – 12 spirals
visible

antheridia 0.73 mm
without calyx
sporangium 0.28 mm



×60

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MISSOURI BOTANICAL GARDEN

13995

Alex. Leitch,

APOTHECARY & PHARMACEUTIST,

COR. 4TH & OLIVE STS., ST. LOUIS.

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Nitella pseudoflabellata

Characeae aus Columbien etc. Berlin Monatsberichte 1858 p. 354:

Nitella recurva: foliis verticillatis 5-8 phyllis, articulo fertili 2-plo longiore, ramulis verticillatis 5-6 phyllis.

- p. 355 N. Lindheimeri, Engelm., only name
- p. 356 N. acuminata, Braunii Ag., only name
- p. 357 ... - ... - descriptions of Lamprothamnus Alexandri

Charae Africae Australis, Berl. Monatsber. 1868. p. 796

Nitella
I Eunitella
A. Monanthodactylae
a dioicae-fertiles furcatae
α homocophyllae
× monoicae
N. flexilis, arcuata, pseudoflabellata

B Diantherodactylae
α homocophyllae
× dioicae
N. glaberrima, Austr.

C. Polyanthrodactylae
dioicae
p. 803. N. glaberrima Austr.

monoicae
p. 803 N. capitata, Schleicheriella, N. fruticosa, N. opaca, gracilis

p. 805 N. Lindheimeri stimmt mit N. Braunii und ist eine Form von N. acuminata

Leonhardi p. 27. 28 N. capitata & N. Batrachosperma have fruit and antheridia covered with gallert

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N. stella spiculifera referred to
the Santa Cruz plant
N. proclaya, was the strongest case
of dam 1858, and referred to
S. Cruz or Texan plant
Columbia
Ln Chm Mexican N. proclaya from Texas
& Maryland 1858

Ln Ch. Mexican 1868 N. proclaya is
referred to as being allied or identical to
N. flexilis - and as
Nama Woodsiaefolia
scaphiata Gunnii
homophylla
monocera

N. stella with globular covers of anther
and fils are marked by Brown
and Gray Cordata - &
N. capitata and N. betulaefolia

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A. Braun 1868

Nitellae of my Herbarium

Europe		America	
N. syncarpa			1 clavata
N capitata.			5 acuminata var subglomerata
N opaca	2	opaca	7 proliqua 1858 spicifera = Ct 1854 (Translation Klein name mentioned: Hydrodictyon Chemn) p 796 1868 (v. 797 N. glocostachys Auctor
N flexilis	3	flexilis Fish Pond	
N. translucens			
N. mucronata	8–11	mucronata var glomeruliferus	mirabilis Al Br. Chemn. Columbia R. Montevideo 1858 p 357
N. gracilis		gracilis	13 oligospira 1861 S. 57
N tenuissima	15	tenuissima	0
N Batrachosperma			
N. hyalina	16	hyalina var Englemanni Lindh	

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13997

marksprünkait worsuwlt in Anspruch zu nehmen.

Auf sander ist Ihnen die Ihgne Anz. vom Nov. auf Ihre erstan (Faiten (Ei dem Artikel von Prof. Planchon finden wardan, aufgenlosen sie Publicat Ergnisse.

Nach dem wer Ei uns ergestan mitzuthailt fatten schaint der Arikan Carbonstaten Kilz in der Tat mit unseren Wilden identisch zu sain, sadas wünsch für unsre Freunde Ihre Ihnen Aufklärung Arikan von Ihre zu Bern (Bericht sein, und wirden Ei uns einen zu Ihren Gefallen wenn Ei uns Ihre Ansicht mitteilt in wenigen Worten mitteilen wollten. Für gütigen Rücksendung der Briefe und der Ihgne Anz. sage sinnig Ihnen Ei. Ihnen im Voraus für Ihre freundlichst Entgegenkommen Ihnen Ihnen

Hochachtungsvoll
G. E. Meissner

1834 (5:) Flora Regensb. 17 Braun

Publicationen

1839 A. Braun Charae in Regensb. Flora

1843 " " Charae Preissianae ex Linnaea vol 17. p. 113

(see English publication)

1844 " " Charae Amer. Bor. in Lillim Journ vol 4 (p. 92

1845 " " Charae in Nederlandsch Kruidkundig I p. 6 Jan 1844

1847 " " Weiss Charae

" " " Charae Rokeilii

1849 " " Charae Australes & Antarcticae

" " " Charae Indicae in Hook Journ 1. 1849. p. 296 unkorrekt

1852 " " Charae Müllerianae, ex Linnaea vol 25. p. 704

" " " Saftstroemung der Charen

1857 " " Pathenogenesis p. 337–351

1858 " " Charae Americae Centrales

1864 Leonhardi Characeae

1868 A Braun Charae Africanae

" Reichardt Tolypella

1871 De Bary Fertilization of Chara

1875 " Germination of Chara

Chara

p. 9 expansa Targión ? var. R II, 526
horizontalis Mett ?

13999

Europ. austr.

H. B. Fr 1826

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Characeae Mullerianae

A. Braun in Linnaea

1852. XXV. p. 704

Chaetae Brisbaneae

A. Braun Linnaea

1843 XVII p. 113–

119

Ch. Behriana R. Muller

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ENNO SANDER,

APOTHECARY.

CORNER OF SECOND & WALNUT STREETS,

under Barnum's Hotel,

Saint Louis, Mo.

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13444

Chara Americana Coutin

33. Ch. polyphylla var Mikauxii A Br Illinois, Engelm
West Texas, Wright
Ohio Hayden

34 Ch. polyphylla var conjunctiva A Br
Texas, Lindheimer № 751, 318
West Texas Wright

35 Ch. polyphylla var tricharantha A Br
West Texas, Wright
S. Carolina Ravenel

36 Ch. conjuncta A Br Illinois, Engelm 1843.
Illinois, Mead

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Nitelleae Leonh. communis e cellulam verticillis pentamerus binis superpositis

Characeae Rich.

Nitelleae, Leonhardi 2 verticilli superpositi. Coronae superpositi
Nitella Ag. antheridia in foliorum radio primario, nec non in radiis secundariis terminalia
Tolypella (Braun) Leonhardi, antheridia ad foliorum divisuras lateralia et in pseudo verticillis sporangiis circumdata
Characeae, Leonh. 1 verticillus corona ?
Lamprothamnus, Braun sporangia e latere inferiore (vel quoque laterale) cellulae antheridium sustinentis nata
Lychnothamnus (Rupr.) Leonhardi. Sporangia in latere anteriore foliorum foliolis occupantia, inter antheridia sita
Chara, Vaill. Leonh. Sporangia e latere superiore cellulae antheridium (in monoicis conjunctis) vel bracteam (in monoicis sejunctis et dioicis) sustinentis nata.

Tolypella editio Leonhardi not in Annita
74 T. corymbosa Br. Columbus, Lesqueroux
75 T. prolifera Leonh. Pines spring, Marais Terre Haydens 1843
76 T. California Br. Marin Co under willows Boland 27 May 1865

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~~margined~~ or auriculate
conspicuous cordate-clasping base; heads usually
loosely thyrsoid-paniculate on short and rigid branchlets:
involucre ~~broadly imbricate~~ sometimes nearly or obscurely imbricate or campanulate of
whitish coriaceous bracts bearing deltoid or
rhomboid ~~obtuse~~ short green tips (varying to triangular-subulate): rays 20 or 30, broadish, sky-
blue varying to violet, half inch long: achenes
~~wholly~~ glabrous, ~~or sometimes with sparse~~-
pubescent. — Spec. ii. 876; Ait. Kew. ii. 206; Willd.
Spec. iii. 2044, at least partly; Lindl. Bot. Reg. t. 1500?
Nees, Ast. 128;)

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I Fragmente einer Monogr. d. Characeen v. A. Braun, fortgesetzt v. Dr. Otto Nordstedt 4c
v. Zopfen — Berlin 1882

Nitellae Leonh. cormus e cellularum verticillis pentameris binis superpositis

4 Nitella opaca Ag Texas Lindh.
7. N. flexilis Ag.
8 N. acuminata A. Br. β. subglomerata Mead, Lind. Ag 1849 Guelph, Mercbacks Farm, a small form
forma brachyteles, ponds on hills NW of Hickories Farm 1846
& Lindheimer, Friedrichsburg
10 subsp. N. glomeriflora Br. = Merrimac, Mass.
11 N. prolongata Br. Aaron; Lindheimer, Hall, Athens
12 N. clavata Bert. Big Sandy, Tenn. 1849 Copperas Creek Wright (K)
28 N. mucronata Br. var? leiosperma Virginia
29 - = subsp. virgata Br. merrimac. robustior
Tenuior Texas, Wilson, March 1845 Lindh
var pachyspyra Mex Bourg Wright I & L and Comal, Wright
32 N capitellata Br (Alicottii olim) Georgia, Texas, Lindheimer, Millcreek, 1844 (very poor sp)
33 N. gracilis Ag ? am oberguadalupe, Texas Lindh. Oct 1845 Aust. Montreal (446 Engelm)
34 N. tenuissima Küt. Michigan 146 Eng var conferta Wright. Mex 86 Millcreek L. 24. 1844
Monterey Mex Gregg 847
37 N Contrachosperma Br. not in America
39 N. flexilis Nordst. New Jersey
42 N. oligospira Br. var Wrightii Br in the Leona Mex Bourg. Wright 1849. Comale, Wright 850
45 N microcarpa Br Montreal, England.
47 N. megacarpa Allen Char Cincinnati Halsted Newbridge etc
54 N. hyalina Ag. Küt. var Englmanni Br Texas Lindh. Oct 1845
68 N. capillata Br Nahant Riddell (wood) England pin nigrique Hooker.
Tolypella additions Leonhardi not in America
74 T. conjuncta Br. Columbus, Lesquereux
75 T. prolifera Leonh. Tivoli opiz, Mauritius Berry Bay Aden 1843
76 T. Californica Br. Marin Co under Willows Boland 27 May 1865

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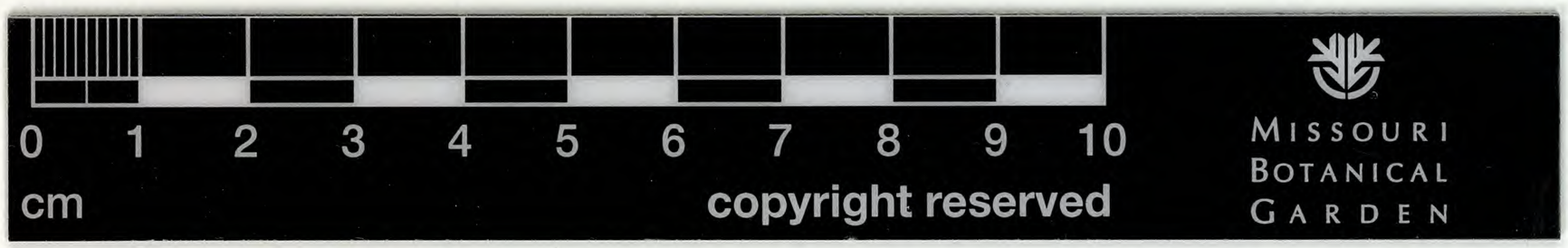
121001



+ + + Involucre of the small (about
2 to 4
3 lines ~~or less~~ high) heads of coriaceous
whitish appressed-imbricated bracts with
broadish and mostly obtuse abruptly squar-
rose spreading pliaceous tips: heads
very numerous, racemiform-paniculate
and crowded and spreading
on or the compound branches: akenes
l
canescent-hirsute, little compressed,
several-nerved: pentagonal ~~cin~~ commonly
cinereous with hispidulous or scabrous
even to the involucre
~~pubes~~ short pubescence: leaves small,
all linear and entire, with partly clasping
and not narrowed base, — Multiflori.

those of the branchlets not rarely
setulose - ~~tipped~~ mucronate.

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1004

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II Charae Leonh. coronula e cellulosa vaginello pentamero unico

Lamprothamnus nihi 1876 alopecuroides Br. subsp. sperig, Europe & Africa

Lychnothamnus (Leonhardi) stelliger Br. Europe & other parts

Chara Vaillant - Agardh - Braun - Leonhardi haplostephanae unistipulatae

87. Ch. coronata Zig Canada, Boria, Arendt, Wm Conrighton, Curtis Wright mex Bord (P. K. L. 908) 854

Big Indy Lakes 1847

B. Schweinitzii michigan, Detroit = Mc Cagh.

95 Ch. Hornemanni Wallm. Cuba Wright 53 Mex Bord. Wright 9. haplostephanae bistipulatae

104 Ch. virgata Weller Louisiana Allen R. Crookid Creek - x 354

diplostephanae haplostichae

107 Ch. contraria A Br. Yellowstone = Ford, Hayden Rivers Spring. 1853 Wright N Mex. 48 [1852] M. - Guadeloupe Lieb Zuber 45

& with hit. prolongs R. Lind. 753 Friedrichsby N. Lieb. 748 Wright Mex Bd. 365 C. & H. & E. x 520

var. hispidula, Lieb. N. 749 (Ch. Linkiana Wallm) Wright N Mex. 18 & Mc V.

115 Ch. intermedia Br. N Mex Wright S. 359 Friedrichsby Lieb. 747 exsic. Wright G & Wright 359

117 Ch. foetida Br Canada, England; N Brunfels Lieb. Ruby Valley Nevada, Watson, Utah, Nelson, Yellowstone, (Hayden Whitestone

N Mex Zuber - Salt Springs Mexican England Illinois, Mead = Mc Cay. Friedrichsby Lieb. pl. 750.

— Lieb. west & Guadeloupe Rev 1845 & Chattanooga Ky 1845 = Gregg 1847 Monterey

var. Wrightii Br. Howard Creek Wright B 1853

126 Ch. aspera (Deth.) Willd. Geyer Ky 1839 = Devils Lake — michigan Detroit.

var. inermis Wright N Mex O. x 569

136 Ch. fragilis Desv. The most common Chara every where! Canada. Mc. Ky. Canada Ky Curtis, England, west Tex Wright 456

Ruby Lake, Nevada Watson — Monterey Calif. & Russian River, Poland N 65 Detroit Wright

137 subsp. delicatula Br. Montreal, Boland 5094, Connecticut, Allen.

141 Ch. connecta Br. St Louis Engl. 1846 Augusta, Mead New England Oakes.

142 Ch. gymnopus Br. & elegans Br. N York Allen

β. trichacantha Comanchecreek or main Canal [Canada ?] N Mex Wright. F. D. Salt Creek Canal Rev

K conjungens Lieb. exsic. 318 4.78; Millcreek & Conejos Creek July 1846 -

μ Michauxii Wright N. Mex. G & Comanche spring — St Louis, = American, Cleveland Ohio Hayden = Mc Cay.

Ey Humboldtii Flor Leg exsic. 752 Lieb. with transition to conjungens; Wright N Mex. 448 (Grey) & P. 386

& Elm Creek Wright A; bottom of clear ponds, Riverdales, Lieb. Oct 1845.

"species & subspecies" see Braun Charae Afric. p. 787 seq.

see also Arthrogonesis p. 311. & 338-51. Oogamebryum. p. 203 Cryptogamen Flor. Schlesien I. p. 353-411

14003

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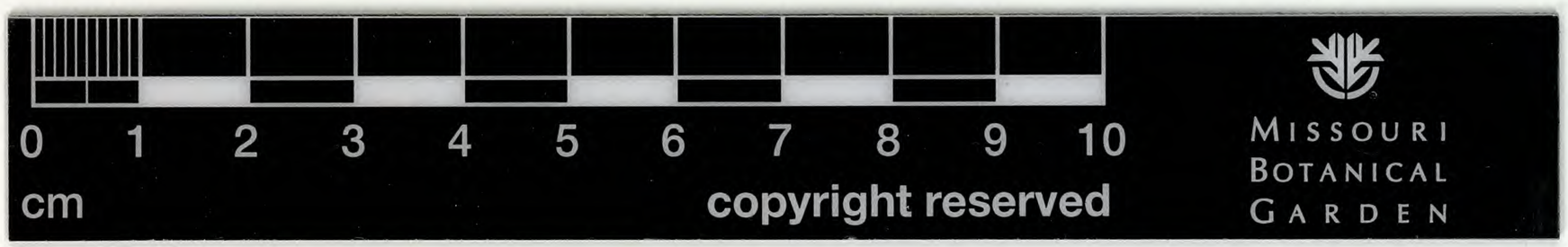


Characeae Americanae — A. Br. Engl 1879
as named by A Braun 1856

1. Nitella clavata A Br. Kansas, Fendler 1849 mixed with Ch. coronata
Wright n Mex 1851 (mixed with Ch. coronata K.C.

2. N. opaca Ag. Victoria Texas, Lindheimer 1845
Neuse S. Wilson Utah, the same

3. N. flexilis Ag. Columbus, Lesquereux
Pennsylvania Jackson
Fresh Pond Cambridge J.E 1856 with Ch. fragilis
Montreal, Watt.

5 N. (acuminata var) subglomerata A Br. Augusta Ill. S Mead
forma brachyteles St Louis J E

7 N. praelonga A Br 1858 S. Carolina Ravenel 851
Texas Lindheimer N 753.
(Attn. Hughes E Hall)

8–11 N. mucronata A Br. var flabellata Texas, Lindheimer both mixed with Ch. coronata

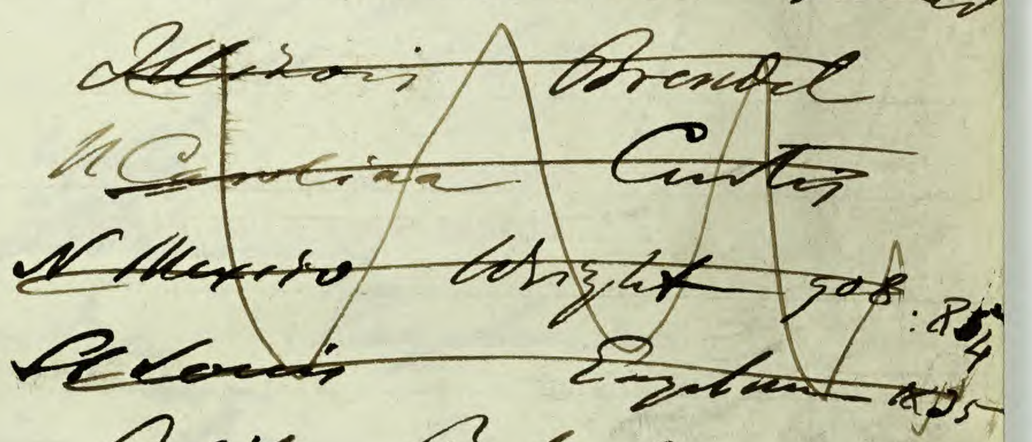
— N. microcarpa A Br. Montreal, Comb, Watt N Carolina Curtis
13 ~~N. translucens A Br.~~ N. gracilis Smith, f. 2g A Br. Montreal, Watt

13 N oligospira A Br. var Wrightii A Br. 1858
Wright Texas 1850

15 N. translucens A Br. Michigan Cooley
var compacta A Br. Texas Wright & Lindheimer

16 N. hyalina DC. var Engelmanni A Br. Texas Lindheimer

17. Tolypella Longicoma A Br. Columbus O. Lesquereux
18 ? prolifera (Chara. Sig) Upper Marlboro, Maryland
Kansas Fendler



? California A Br. in litt. Calif. Bolander

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20 Chara connata A. Braun N. Carol. Curtis
Kansas, Fendler
upper Missouri, Hayden
Illinois Brendel
Illinois Englmann
N Mexico Wright 854 - 905
N. Carolina Curtis
montreal, Watt

21 " " var Schweinitzii Delaware, Tuckall
N. Carolina Curtis

22 Ch. Hornemanni Wallm. 1853 Wright N Mex 358
(= horride A.Br. 1853 = Litt)

23. Ch. foetida A.Braun Pennsylv. Mr Minn
(Ch. vulgaris Aust) N. Carol. Curtis Canada, Watt
Buffalo Clinton —
Monterey, etc. Mex. Gregg
Utah & Nevada, S. Watson
Nebraska Hayden
Texas Lindheimer 350
Illinois Englmann

24 Ch. " var Wrightii A.Br. West Texas Wright 851

25 Ch. contraria " Jefferson, Hayden
Upper Missouri Hayden
Texas Lindheimer 748.
West Texas, Wright 365 etc.

26. " " var hispidula A.Br. (Ch. Lindheimeri A.Br. olim)
Wright West Texas & N Mex. 18 etc
Lindheimer Texas 749

27. Ch. intermedia A. Braun Texas, Lindheimer 747.
" Wright 389

28. 29 Ch. aspera Willd Upper Missouri, Geyer
West Texas Wright 569

30. 31 Ch. fragilis Pennsylv. Wolle
Canada, Watt
Ohio Lesquereux
Cambridge Englm
Nevada S. Watson
S. Carolina Ravenel

32 Ch polyphylla var Humboldtii A.Br West Texas
Wright 448. 386
Texas, Lindheimer 752

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Ophioglossum. Texas. Lindh. 53 № 414. ist jetzt meist
O. vulgatum, weist aber davon ab, hat oft 2 Ähren in 1 Scheide
bis entwickelt, was bei O. vulgatum nie der Fall ist; übrigens ist das
Kraut Blatt meist zugespitzt und Kölbchen ist mehr dicklich. Rand ver-
schieden. Dadurch ist mir jetzt Exemplar von Riehl gesammelt interessant
und ist jetzt = Herrn O. Riehlii zurück, über welchen Namen mir
Kampmann i Dachniger verständigt worden ist.

Adiantum. Texas i Mexico 320. ist A. Capillus Veneris var. incisum
(A. dependens Chapm.) [illegible] mit Exemplar von Alabama
über auch von Nizza, in Corsica i von Bayreuth jetzt in schöne Form,
505 Neubraunfels ist Notochlaena sinuata Kaulf.
441 Friedrichsberg Lindh. ist Notochl. Aschenborniana Klotzsch.
463. Neu Braunfels. Allosorus flexuosus Kunze. (Pteris flex. Kaulf.
Pellaea flexuosa Link.)

1017. a n° 6. On the Rio Grande de Santa Fee 1847, Ähnlich 608 von Leichtlin
ist Notochlaena Fendleri Kunze Filices (Fortsetzung von Schomburgk Fil)
tab. CXXXVI.

Cheilanthes Kalkfelsen [illegible] an Serpentin ist Cheilanthes vestita Sw.
var. minor.

Cheilanthes von Neubraunfels Lindh 51. ist schlank u. ä., ähnlich Ch. spectabilis
Kaulf. in Brasilien. die Ex. sind zu unvollständig, um sie mit Sicherheit
zu einer Art ziehen zu können.

Characeae. B.

- Nitella spiculifera A Br. n. sp. in Carolina australi C. Ravenel (n= VI.
- Nit. tenuissima var. compacta A Br. C. Wright Coll. N. Mex. n= 86.
  - ein kurzer (1844) mitgetheilt von Leichtlin gesammelt kann gelten
    selbe Varietät sein.
- Nit. flabellata Kütz (exilis A Br.) in the Conale, Texas, Wright 1850 I.
  In the Cona, mexic. Boundary 1851. N.
- Nit. flabellata var. parvula, condensata. mexic. Boundary Wright 1851
  zwischen unter Ch. coronata mexicana cit J. & L. 908.
- Nit. clavata A Br. (Ch. clavata Bestensleb.) mexic. Boundary. Wright
  mit fünf einzigen Brangleben zwischen unter Ch. coronata mexicana K
- Chara coronata var. mexicana A Br., fast ganz übereinstimmend mit Ch. coronata
  var. Cortiana A Br. (Ch. Cortiana Amici, Ch. Braunii Gmel.), die
  aber zunächst an Ch. coronata v. oahuensis (Ch. oahuensis Kützg.)
  mexic. Boundary Ch Wright sub cit. J. K & L. 908.
- Chara horrida A Br. sp. nova pulcherrima! mexic. Boundary 1851
  = Wright sub cit. J. & R. 358.
- Chara fastida A Br. (vulgaris Aut ex p.) Verzweigungen an Internodien
  Oct 1852.
- Chara fastida forma elongata, gracilis, longissime bracteata
  Howard Creek Jul 1851 Wright sub cit. B.
- Chara contraria A Br. nur kleinere Form.
  Friedrichsberg, Texas C. Lindh. Früher mitgetheilt unter n= 80. c.

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Chara contraria A Br. bei de Cfst Smith's befindet sich schon unsere formen:
. 1, subinermis humilior macrotyla. mexic. Boundary pub lit M
" 2, subinermis elongata divergens brachytyla. Mex. Bound. pub lit. C et H.
. 3, subinermis elongata stricta brachytyla. Mex. Bound. pub lit. E.
. 4, hispidula elongata stricta brachytyla. Coll. Wright 1° 18. U. V.
(passt nit der form von Lindheimer überein, da ist stipes simul Ch. Lindheimeri granulat pubescens)

Ch. intermedia A Br. mir jedoch unbekannt, da die Diagnose nicht passt, in 2 formen
1, mexic. Boundary. A. Wright pub lit S n° 359.
2, mit fragment unter Ch. polyphylla v. Michauxii von Comanche Spring (lit. J.)

Ch. fragilis Desv. zwei formen. In the Santee Canal, South Carol. Ravenel
dito Pomds. Ravenel (sub VIII) C.

Chara aspera Willd. mexican Bound. Wright pub O. 569. (sub IX) A

Ch. polyphylla var. Michauxii A Br. Comale, Texas. Wright Jan 1850 (III)
Comanche Spring, mex. Bound. Wright g.

Ch. polyph. var Mühlenbergii A Br. (Ch. foliolosa Mühlenb. Willd.)
Wright Coll N. mex. n° A. i. mex. Bound. P. 386.

Ch. polyphylla var. trichacantha A Br. subspecies nova!
Comanche creek or main canal Mex Bound. Wright pub lit F.
(V I ?)

Fortsetzung auf Seite.

In Mühlenberg Catalogus plantarum Americae Sept., sowohl in der ersten edition von 1813, als in der 2ten von 1818, werden 4 arten Chara (ohne dem Namen nach und alle 4 in Pennsylvanien) namlich Ch. foliolosa, vulgaris, glabra und tenuis aufgeführt, ohne sich auf Mühlenbergische originalexemplare oder der 2 lateinischen gattungen aufschreiben. Ursachen?

Mexica. Coll. Wright nov-mex. 1851-52 n° 2012 (2412?)
ist mexic. respita Hook et Greville.

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On Cham crinita a Chara
in general see Braun Barthenogenesis
Berlin 1857 — pag 337 ~~1~~
351
pag. 350.

Antheridia : size (or diameter ?)

1, in monoecious species

Ch. fragilis 0.30 mm

Ch. foetida
Ch contraria } 0.33 — 0.35 mm
Ch. strigosa

Ch. baltica } 0.45 — 0.50 mm
Ch. hispida

2, dioecious species

Ch. crinita 0.70 — 0.75 mm

Ch. aspera 0.80 mm

Ch. galioides ? 1.00 mm
Ch. connivens ?

Ch. centrophylla 1.20 mm

Nitella Cabr 0.25 mm
Chara - " 0.33 gymnopoda gymnophylla
" " 0.54 gymnopoda robusta

14006

Smithsonian Institution,

Washington, July 15, 1863.

Dear Sir.

The law of Congress in regard to postage regulations which went into operation on the first of the present month, prevents the transmission **without prepayment**, as heretofore, of the meteorological registers through the Patent Office, and as the postage ought not to be paid by the observers, and would subject the Institution to a much larger outlay of funds than its diminished income will at present allow, you will please to retain your records until after the meeeting of Congress, when it is expected a change will be made in the law, which will permit them to be received as heretofore, without cost.

I am, very respectfully,

Your obed't. serv't.,

Joseph Henry,

Sec'y S. I.

Mr. .....

Meteorological Observer,

.....

.....

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